NRC FORM 618 U.S. NUCLEAR REGULATORY COMMISSION (8-2000) 10 CFR 71 CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES a CERTIFICATE NUMBER b REVISION NUMBER c DOCKET NUMBER d PACKAGE IDENTIFICATION NUMBER PAGE PAGES 4 71-9280 USA/9280/AF-85 OF 3 9280 1

2 PREAMBLE

- a This certificate is issued to certify that the package (packaging and contents) described in Item 5 below meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
- b This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported
- 3 THIS CERTIFICATE IS ISSUED ON THE BASIS OF A SAFETY ANALYSIS REPORT OF THE PACKAGE DESIGN OR APPLICATION
- a ISSUED TO (Name and Address)
 Babcock & Wilcox Nuclear Operations
 Group, Inc.
 P.O. Box 785
 Lynchburg, VA 24505-0785
- b TITLE AND IDENTIFICATION OF REPORT OR APPLICATION BWX Technologies, Inc., application dated January 25, 2008.

4 CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below

5

(a) Packaging

(1) Model No.: UBE-1

(2) Description

A steel drum for the transport of solid uranium and uranium-beryllium waste materials. The packaging is a 55-gallon, open-head steel drum with a minimum 18-gauge shell and bottom head, and a minimum 16-gauge closure lid. The lid is closed by a 12-gauge bolted locking ring with drop forged lugs, one of which is threaded, having a 5/8 inch bolt and nut. The closure includes a gasket. The gross weight of the package, including the maximum weight of contents, is approximately 600 pounds.

(3) Drawings

The packaging is constructed and assembled in accordance with Babcock & Wilcox Company Drawing No. LP3023C, Rev. 4.

(b) Contents

(1) Type and form of material

Uranium and uranium-beryllium mixtures in the form of solids, and solid waste materials.

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5.(b) Contents (continued)

(2) Maximum quantity of material per package

550 pounds The uranium may be of any enrichment, and the beryllium may be present in any concentration. The maximum fissile mass is 100 grams U-235 per package, and the maximum average fissile mass density in the package is 0.5 gram U-235 per liter. Fission and activation products may be present, provided that the total quantity is less than $1 \times 10^{-3} A_2$ per package.

(c) Criticality Safety Index (CSI) to be shown on label for nuclear criticality control.

Minimum
Criticality Safety
Index (CSI)
0.5
1.0
1.2
2.0
4.0
5.0
10.0
20.0

- 6. In addition to the requirements of Subpart G of 10 CFR Part 71:
 - (a) The package must be prepared for shipment and operated in accordance with the Operating Procedures in Section 7 of the application.
 - (b) Each packaging must be acceptance tested in accordance with the Acceptance Tests in Section 8 of the application.
- The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.17
- 8. Transport by air of fissile material is not authorized.
- 9. Revision No. 3 of this certificate may be used until November 30, 2009.
- 10. Expiration date: May 31, 2013.

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10 CFR 71 CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES						
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REFERENCES

BWX Technologies, Inc., application dated January 25, 2008.

Supplement dated March 20, 2008; May 30, 2008.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Eric J. Benner, Chief Licensing Branch

Division of Spent Fuel Storage and Transportation

Office of Nuclear Material Safety

and Safeguards

Date: November 12, 2008



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION REPORT

Docket No. 71-9280
Model No. UBE-1 Package
Certificate of Compliance No. 9280
Revision No. 4

SUMMARY

By letter dated May 30, 2008, BWXT, Nuclear Operations Division, requested that Certificate of Compliance No. 9280 for the Model No. UBE-1 packaging be transferred to Babcock & Wilcox Nuclear Operations Group, Inc. BWXT, Nuclear Operations Division, did not request any changes to the design, operating procedures, acceptance tests, or maintenance program of the package. The Certificate has been revised.

EVALUATION

BWXT, Nuclear Operations Division, requested transfer of Certificate of Compliance No. 9280 for the Model No. UBE-1 package by letter dated May 30, 2008. BWXT, Nuclear Operations Division, requested that the transfer be effective on the day of the SNM42 license transfer. No changes in the package design, operating procedures, acceptance tests and maintenance program or contents of the package were requested. The staff reviewed the documents referenced in the Certificate of Compliance, Revision No.3, and determined that the required documentation was available and complete. The staff also reviewed the July 24, 2008, "Quality Assurance Plan for the Shipping Program," Revision 17, and determined that the name of the company on the Quality Assurance Program Approval was changed to Babcock and Wilcox Nuclear Operations Group, Inc. The following revisions to the certificate have been made:

Item 3(a) was changed from BWX Technologies, Inc., Nuclear Products Division, to Babcock & Wilcox Nuclear Operations Group, Inc., Babcock & Wilcox Nuclear Operations Group, Inc., has accepted responsibility for the completeness and accuracy of the statements and the representations of the previous certificate holder, BWX Technologies, Inc. Babcock & Wilcox Nuclear Operations Group, Inc.'s authorized activities include: design, procurement, fabrication, assembly, testing, modification, maintenance, repair, and use of the package. Babcock & Wilcox Nuclear Operations Group, Inc., will be responsible for maintenance of the certificate and Safety Analysis Report for the package design, in accordance with the requirements of 10 CFR 71.91(c).

Condition No 9 was modified to authorize use of the previous revision of the certificate for a period of approximately one year.

CONCLUSION

The Certificate of Compliance has been revised to transfer the certificate from BWX Technologies, Inc., to Babcock & Wilcox Nuclear Operations Group, Inc. Based on the statements and representations in the application, the staff concludes that thechange does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9280, Revision No. 4, on November 12, 2008.